



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER19960009

Agency Interest No.: 1255

Mr. Jonathon Manns
Works Manager
PPG Industries, Inc.
P. O. Box 1000
Lake Charles, LA 70602

RE: Part 70 Operating Permit, Lake Charles Complex – Per/Tri Unit, PPG Industries, Inc, Lake Charles, Calcasieu Parish, Louisiana

Dear Mr. Manns:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006.

2270-V0

public notice

cc: EPA Region ..

ENVIRONMENTAL SERVICES
PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
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AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Complex – Per/Tri Unit
Agency Interest No. 1255
PPG Industries, Inc.
Lake Charles, Calcasieu Parish, Louisiana

I. Background

The Lake Charles Complex is a chemical manufacturing facility. It is organized into the following units/areas: VC Production, Power/Utilities, Silicas, Complex Support Facilities, Chlor/Alkali Plant, Mercury Cells, Derivatives Docks, Derivatives Shipping, Wastewater Treatment Facilities, Greater EDC, Waste Recovery Unit, Per/Tri, TE-2, and Incinerators Area.

This is the Part 70 operating permit for the Per/Tri Unit. The Per/Tri Unit was first permitted in 1972. The previous permit for the unit is the State Permit 2270, issued July 21, 1994.

II. Origin

A permit application was submitted in October 1996 requesting a Part 70 operating permit for the above referenced facility. The application was subsequently revised on September 6, 2002 and September 30, 2004. Additional information dated January 3, April 14, June 15, July 15, August 19, and December 29, 2005 was also submitted.

III. Description

The Per/Tri Unit uses reactors and distillation systems to produce chlorinated hydrocarbons. Muriatic acid (HCl) is also produced as a by-product.

Reactors

Five reactors are operated in parallel to produce perchloroethylene (Per) and trichloroethylene (Tri). Each reactor consists of tubes filled with a catalyst. The catalyst is fluidized by the flow of feed gases. A heat transfer fluid removes heat generated by the reactions.

Feed is reacted with HCl and oxygen in the fluidized reactor beds. A mixture of Per, Tri, water, HCl, inert gases, and other byproducts exits the reactors and enters condenser systems. Condensed organic and water, known as reactor crude, enter the Dehydration (DH) Still section. Noncondensibles go to the HCl Recovery section.

HCl Recovery

HCl and other gases pass through an HCl absorber before being routed to on-site combustion devices. Muriatic acid produced in the absorber is transferred to an acid distribution system

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DH Still

Condensed organic is separated from aqueous from phase separator vessels. The separated aqueous is treated in on-site NPDES facilities. The organic is then dried in one of two DH stills.

Purification

The purification area consists of distillation columns and associated equipment that separate the reactor crude into products. Heavy byproducts are removed and are routed to equipment permitted under a separate permit (Number 2216-V0, issued June 29, 2004). Light byproducts are recycled to the reactor area as a portion of the chlorinated hydrocarbon feedstock. Vents are routed to on-site combustion facilities.

Within the purification area is a halogenation system that is used to remove a minor impurity from the perchloroethylene product.

Neutralization and Drying

Per and Tri product streams exit the Purification distillation columns and are routed to vessels where they are neutralized. Neutralization salts are removed by water washing. The wastewater is treated in on-site NPDES facilities. The wet products are then routed to drying beds where Per and Tri products are produced.

TCA Destruction

Trichloroacetylchloride in the crude product reacts in the neutralizer to form trichloroacetic acid (TCA). The neutralizer wastewater is heated in the TCA destruction system, forcing the TCA to decompose.

Stabilization and Storage

Different grades of Per and Tri products are produced by varying stabilizer formulations. Many tanks are used to store products, intermediates, off-specification materials, stabilizer, and ammonia.

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Lake Charles Complex – Per/Tri Unit
Agency Interest No. 1255
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There is no project proposed with the permit application. Newly available emission factors are used for emission estimations. Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	0.08	1.94	+ 1.86
SO ₂	0.02	-	- 0.02
NO _x	2.75	-	- 2.75
CO	0.55	2.47	+ 1.92
VOC *	1.77	16.24	+ 14.47

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,1,2,2-Tetrachloroethane	-	1.16	+ 1.16
1,1,2-Trichloroethane	-	1.39	+ 1.39
1,1-Dichloroethane	-	1.32	+ 1.32
1,2-Dichloroethane	-	0.64	+ 0.64
1,2-Epoxybutane	-	0.01	+ 0.01
Biphenyl	0.16	1.71	+ 1.55
Carbon Tetrachloride	-	0.10	+ 0.10
Chloroethane	-	0.14	+ 0.14
Chloroform	-	0.23	+ 0.23
Hexachlorobutadiene	-	0.46	+ 0.46
Hexachloroethane	-	0.47	+ 0.47
Trichloroethylene	0.44	1.80	+ 1.46
Vinyl Chloride	-	0.01	+ 0.01
Vinylidene Chloride	-	0.34	+ 0.34
Total	0.60	9.62	+ 9.02

Other VOC (TPY): 6.36

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) review is not required.

This facility is part of a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

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V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2006; and in the <local paper>, <local town>, on <date>, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>, 2006. The draft permit was also submitted to US EPA Region VI on <date>, 2006. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

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VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - TPY
O1 – Sampling	150 samples/day	VOC: 0.06; Per: 0.06
O2 – Clearing Catalyst Pot to Add Catalyst	5,600 times/year	VOC: <0.01; HCl: 0.01; Per: <0.01; Cu: <0.01
O3 – Loading Hose Disconnection	25 times/year	VOC: < 0.01; NH ₃ : 0.40
O4 – Clearing Filters to Replace Cartridge	6 times/week	VOC: 0.03; Per: 0.05
O5 – Carbon Use	240 hours/year	VOC: 0.01; Per: 0.01; Other: <0.01
O6 – Stabilizer Addition for Batch Operations	600 times/year	VOC: 0.03; Per: 0.03
M1 – Clearing Pumps	200 times/year	VOC: <0.01; Per: 0.01
M2 – Clearing Miscellaneous Piping	40 times/week	VOC: 0.03; Per: 0.02
M3 – Clearing Instrument Tubing	100 ft/day	VOC: <0.01; Per: <0.01
M4 – Clearing Tanks	33 times/year	VOC: 2.17; Per: 0.47 NH ₃ : <0.01
M6 – Unit Clearance of Reactor System	67 times/year	VOC: 0.09; Per: 0.08; HCl: 0.01
M7 – Unit Clearance of Distillation Area	26 times/year	VOC: 1.02; Per: 1.25
M8 – Unit Clearance of Neutralizer Systems	18 times/year	VOC: 0.08; Per: 0.14; NH ₃ : 0.02
M9 – Unit Clearance of DH Still Systems	16 times/year	VOC: 0.18; Per: 0.18; HCl: 0.04
M12 – Cleaning Machines	221 gal./year	VOC: 0.08
M13 – Clearing Tri Reflux Dryer	12 times/year	VOC: 0.90; HCl: 0.05
M14 – Clearing Bromine Tank, Cylinder, and Piping	8 times/year	Br: 0.02

IX. Insignificant Activities

ID No.	Description	Citation
	Dowtherm Heater (6.5 MM BTU/hr)	LAC 33:III.501.B.5.A.1
	3 Betz Still Acid Tanks (2,000 gal. each)	LAC 33:III.501.B.5.A.3
	Dowtherm Storage Tank (3,644 gal.)	LAC 33:III.501.B.5.A.3
	Portable Kerosene Heaters (< 1 MM BTU/hr each)	LAC 33:III.501.B.5.A.5
	Per/Tri Unit Lab. Vents	LAC 33:III.501.B.5.A.6
	Drum Washing Station	LAC 33:III.501.B.5.A.7
	Portable Fuel Tanks used on a Temporary Basis	LAC 33:III.501.B.5.A.8

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Agency Interest No. 1255

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ID No.	Description	Citation
	Analyzers	LAC 33:III.501.B.5.A.9
	Catalyst Charging Operation	LAC 33:III.501.B.5.A.11
	Temporary Portable Cooling Towers	LAC 33:III.501.B.5.A.12

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Complex – Per/Tri Unit
Agency Interest No. 1255
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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III, Chapter																	
		5*	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	22	29*	51*	53	56	59
GRP074	Per/Tri Unit																		
EQT269	Per/Tri Reactor Area Scrubber	1														1	1	1	1
EQT270	Per/Tri Still Line Scrubber	1														1	1	1	1
EQT271	Per/Tri Dowtherm Water Recovery Tank																		
EQT272	No. 1 Per/Tri Reactor Coolant Systems															1	1	1	1
EQT273	No. 2 Per/Tri Reactor Coolant Systems															1	1	1	1
EQT274	No. 3 Per/Tri Reactor Coolant Systems															1	1	1	1
EQT275	No. 4 Per/Tri Reactor Coolant Systems															1	1	1	1
EQT276	No. 5 Per/Tri Reactor Coolant Systems															1	1	1	1
EQT277	East Per/Tri Catalyst Box Scrubber															1	1	1	1
EQT278	West Per/Tri Catalyst Box Scrubber															1	1	1	1
EQT279	Per/Tri Unit Cooling Tower																		1
EQT280	No. 1 ASLFT Tank															1			
EQT281	No. 2 ASLFT Tank															1			
EQT282	No. 3 ASLFT Tank															1			
EQT283	No. 4 ASLFT Tank															1			
EQT284	No. 5 ASLFT Tank															1			

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ID No.:	Description	LAC 33:III Chapter																
		5*	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	22	29*	51*	53	56
EQT285	No. 6 ASLFT Tank																	
EQT286	No. 7 ASLFT Tank																	
EQT287	No. 8 ASLFT Tank																	
EQT288	No. 9 ASLFT Tank																	
EQT289	No. 10 ASLFT Tank																	
EQT290	North SLFT Tank																	
EQT291	South SLFT Tank																	
EQT292	HSFT Tank																	
EQT293	East Btms Tank																	
EQT294	West Btms Tank																	
EQT295	BLM Tank																	
EQT296	NPL Tank																	
EQT297	DG-1 Tank																	
EQT298	DG-2 Tank																	
EQT299	DG-3 Tank																	
EQT300	DG-4 Tank																	
EQT301	HP-1 Tank																	
EQT302	HP-2 Tank																	
EQT303	HP-3 Tank																	
EQT304	PS-1 Tank																	
EQT305	PS-2 Tank																	
EQT306	232-ST Tank																	
EQT307	TS-1 Tank																	
EQT308	TS-3 Tank																	

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																	
		5*	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	22	29*	51*	53	56	59
EQT309	208-ST Tank						1												
EQT310	145-ST Tank						1												
EQT311	119-ST Tank						1												
EQT312	NH ₃ Tank														1				
EQT313	TCA Feed Tank						3												
EQT314	Water Recovery Tank						3												
EQT315	P/T Still System														2				
EQT316	Per CU Still System													2					
EQT317	Heavies Still System													2					
EQT318	Per Still System													2					
EQT319	Tri CU Still System													2					
EQT320	208 Neutralizer System													3					
EQT321	232 Neutralizer System													3					
EQT322	No. 1 DH Still System													3					
EQT323	No. 2 DH Still System													2					
EQT324	HCl Absorber/Stripper													2					
EQT325	No. 1 Reactor System													2					
EQT326	No. 2 Reactor System													2					
EQT327	No. 3 Reactor System													2					
EQT328	No. 4 Reactor System													2					
EQT329	No. 5 Reactor System													2					
EQT330	C4 Reactor System													3					
EQT331	P/T TCA Reactor System													3					
FUG010	Per/Tri Unit Fugitives													1		1			1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. **Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																	
		5*	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	22	29*	51*	53	56	59
RLP020	Per/Tri Product Dryers Regeneration Vent											1						1	
RLP021	Per/Tri Fluidization Vent Filter																	1	
RLP022	No. 1 Per/Tri Reactor Fluidization Vent																	1	
RLP023	No. 2 Per/Tri Reactor Fluidization Vent																	1	
RLP024	No. 3 Per/Tri Reactor Fluidization Vent																	1	
RLP025	No. 4 Per/Tri Reactor Fluidization Vent																	1	
RLP026	No. 5 Per/Tri Reactor Fluidization Vent																	1	

* The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Complex – Per/Tri Unit
Agency Interest No. 1255
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- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR			
		A	K	V	Z	R	M	A	F	E	G	H	S	T	NNNN	64	89
GRP074	Per/Tri Unit						1	1		1							
EQT269	Per/Tri Reactor Area Scrubber															3	
EQT270	Per/Tri Still Line Scrubber															3	
EQT271	Per/Tri Dowtherm Water Recovery Tank					3										3	
EQT272	No. 1 Per/Tri Reactor Coolant Systems															3	
EQT273	No. 2 Per/Tri Reactor Coolant Systems															3	
EQT274	No. 3 Per/Tri Reactor Coolant Systems															3	
EQT275	No. 4 Per/Tri Reactor Coolant Systems															3	
EQT276	No. 5 Per/Tri Reactor Coolant Systems															3	
EQT277	East Per/Tri Catalyst Box Scrubber															3	
EQT278	West Per/Tri Catalyst Box Scrubber															3	
EQT279	Per/Tri Unit Cooling Tower															1	
EQT280	No. 1 ASLFT Tank															1	
EQT281	No. 2 ASLFT Tank															1	

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ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR							
		A	K _d	V _e	Z _N	R _R	A	Z	>	E	A	C _r	C	H	O	T	N _{NNN}	64
EQT282	No. 3 ASLFT Tank	1																1
EQT283	No. 4 ASLFT Tank	2																1
EQT284	No. 5 ASLFT Tank	2																1
EQT285	No. 6 ASLFT Tank	2																1
EQT286	No. 7 ASLFT Tank	1																1
EQT287	No. 8 ASLFT Tank	1																1
EQT288	No. 9 ASLFT Tank	2																1
EQT289	No. 10 ASLFT Tank	2																1
EQT290	North SLFT Tank	2																1
EQT291	South SLFT Tank	2																1
EQT292	HSFT Tank	2																1
EQT293	East Btms Tank	2																1
EQT294	West Btms Tank	2																1
EQT295	BLM Tank	3																1
EQT296	NPL Tank	3																1
EQT297	DG-1 Tank	2																1
EQT298	DG-2 Tank	2																1
EQT299	DG-3 Tank	2																1
EQT300	DG-4 Tank	2																1
EQT301	HP-1 Tank	2																1
EQT302	HP-2 Tank	2																1

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ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR							
		A	K _b	V _b	Z _b	R/R	A	M	V	F/F	A	G	H	O	T	NNNN	64	89
EQT303	HP-3 Tank	2																
EQT304	PS-1 Tank	2																
EQT305	PS-2 Tank	1																
EQT306	232-ST Tank	2																
EQT307	TS-1 Tank	2																
EQT308	TS-2 Tank	2																
EQT309	208-ST Tank	2																
EQT310	145-ST Tank	2																
EQT311	119-ST Tank	2																
EQT312	NH ₃ Tank																	
EQT313	TCA Feed Tank	3																
EQT314	Water Recovery Tank	3																
EQT315	P/T Still System		2															
EQT316	Per CU Still System		2															
EQT317	Heavies Still System		2															
EQT318	Per Still System		2															
EQT319	Tri CU Still System		2															
EQT320	208 Neutralizer System		3															
EQT321	232 Neutralizer System		3															
EQT322	No. 1 DH Still System		2															
EQT323	No. 2 DH Still System		2															

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ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR				
		A	K _b	V _a	Z _v	R/R	A	Z	V	F/F	A	C	H	S	T	NNNN	64	89
EQT324	HCl Absorber/Stripper																	
EQT325	No. 1 Reactor System																1	1
EQT326	No. 2 Reactor System																1	1
EQT327	No. 3 Reactor System																1	1
EQT328	No. 4 Reactor System																1	1
EQT329	No. 5 Reactor System																1	1
EQT330	C4 Reactor System																1	1
EQT331	P/T TCA Reactor System																1	1
FUG010	Per/Tri Unit Fugitives																1	1
RLP020	Per/Tri Product Dryers Regeneration Vent																3	3
RLP021	Per/Tri Fluidization Vent Filter																	
RLP022	No. 1 Per/Tri Reactor Fluidization Vent																	
RLP023	No. 2 Per/Tri Reactor Fluidization Vent																	
RLP024	No. 3 Per/Tri Reactor Fluidization Vent																	
RLP025	No. 4 Per/Tri Reactor Fluidization Vent																	

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ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR							
		A	K _b	V _a	Z ₂	R _R	A	Z	>	F _E	A	C	H	S	T	NNNN	64	89
RLP026	No. 5 Per/Tri Reactor Fluidization Vent																	

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT269, EQT270 (Scrubbers)	HON Subparts G – NESHAP for SOCM1 [40 CFR 63.100]	Does Not Apply – Used for less than 300 hours.
EQT271, EQT313, EQT314 (Tanks)	NSPS Subpart Kb – Volatile Organic Liquid (VOL) Storage Vessels [40 CFR 60.110b]; LAC 33:III.2103 – VOC Storage HON Subparts G – NESHAP for SOCM1 [40 CFR 63.100]	Do Not Apply – Not for VOL (or VOC) storage Does Not Apply – Gas stream contains < 0.005% (w) total organic HAP.
EQT272, EQT273, EQT274, EQT275, EQT276 (Coolant Systems)	HON Subparts G – NESHAP for SOCM1 [40 CFR 63.100]	Does Not Apply – No gas stream is from air oxidation reactor, distillation unit, or reactor.
EQT279 (Cooling Tower)	40 CFR Part 63, Subpart Q – Industrial Process Cooling Towers [40 CFR 63.400]	Does Not Apply – No Chromium used.
EQT281, EQT283, EQT284, EQT285, EQT288, EQT289, EQT290, EQT291, EQT292, EQT293, EQT294, EQT295, EQT296, EQT297, EQT298, EQT299, EQT300, EQT301, EQT302, EQT303, EQT304, EQT306, EQT307, EQT308, EQT309, EQT310, EQT311 (Surge Control Vessels)	NSPS Subpart Kb – Volatile Organic Liquid (VOL) Storage Vessels [40 CFR 60.110b]	Does Not Apply – Constructed before July 23, 1984. EQT295 and EQT296 have capacity < 10,558 gallons each.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Complex – Per/Tri Unit
 Agency Interest No. 1255
 PPG Industries, Inc.
 Lake Charles, Calcasieu Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT315, EQT316, EQT317, EQT318, EQT319, EQT322, EQT323, EQT322 (Distillation Operations)	NSPS Subpart NNN – Distillation Operations [40 CFR 60.660] LAC 33:III.2147 – SOCMI Reactor Processes and Distillation Operations	Does Not Apply – Constructed before December 30, 1983. Exempt – Subject to HON Subpart G.
EQT320, EQT321 (Neutralizer Systems)	NSPS Subpart RRR – Distillation Operations [40 CFR 60.700]; HON Subparts G – NESHAP for SOCMI [40 CFR 63.100]; LAC 33:III.2147 – SOCMI Reactor Processes and Distillation Operations; LAC 33:III.5109.A – Comprehensive Toxic Air Emission Control Program	Do not apply – Gas stream from this process is transferred to another process.
EQT324 [HCl] Absorber/Stripper	40 CFR Part 63, Subpart NNNN – NESHAP for HCl Production [40 CFR 63.8985]	Does Not Apply – Does not produce a liquid HCl product at a concentration of 30 weight percent during its normal operations.
EQT325, EQT326, EQT327, EQT328, EQT329 (Reactors)	LAC 33:III.2147 – SOCMI Reactor Processes and Distillation Operations NSPS Subpart RRR – Distillation Operations [40 CFR 60.700]	Exempt – Subject to HON Subpart G.
EQT330, EQT331 (Reactors)	LAC 33:III.2147 – SOCMI Reactor Processes and Distillation Operations NSPS Subpart RRR – Distillation Operations [40 CFR 60.700]; HON Subparts G – NESHAP for SOCMI [40 CFR 63.100]; LAC 33:III.2147 – SOCMI Reactor Processes and Distillation Operations	Does Not Apply – Constructed before June 29, 1990.
RLP020 (Vents)	HON Subparts G – NESHAP for SOCMI [40 CFR 63.100]	Does Not Apply – Not a continuous vent.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Complex – Per/Tri Unit
Agency Interest No. 1255
PPG Industries, Inc.
Lake Charles, Calcasieu Parish, Louisiana

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Complex – Per/Tri Unit
Agency Interest No. 1255
PPG Industries, Inc.
Lake Charles, Calcasieu Parish, Louisiana

XII. Permit Shield

Per 40 CFR 70.6(f) and LAC 33:III.507.I, a permit shield has been determined for the referenced facility as follows:

1. The Scrubbers 303 and 339 (EQT269 and EQT270) are not subject to 40 CFR 63 Subparts F & G – These scrubbers are intended to operate in organic hazardous air pollutant service, as defined in 40 CFR 63.161, for less than 300 hours during the calendar year.
2. Compliance with 40 CFR 63 Subparts A and H constitutes compliance with 40 CFR 60 Subpart VV, 40 CFR 61 Subpart V, LAC 33:III.2122, and LAC 33:III.5109 for fugitive emissions in the Per/Tri Unit (FUG010).
3. The HCl Stripper/Absorber (EQT324) is not subject to 40 CFR Part 63, Subpart NNNNN – This process does not produce a liquid HCl product at a concentration of 30 weight percent during normal operations.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.
[LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence

40 CFR PART 70 GENERAL CONDITIONS

that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

40 CFR PART 70 GENERAL CONDITIONS

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated September 30, 2004, along with supplemental information dated January 3, April 14, June 15, July 15, August 19, and December 29, 2005.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER19960009
 Permit Number: 2270-V0
 Air - Title V Regular Permit Initial

Subject Item Inventory

ID	Description	Tank Volume	Max Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT269	303: Per/Tri Reactor Area Scrubber		792 ft ³ /min	36 hr/yr (All Year)		
EQT270	339: Per/Tri Still Line Scrubber		5 gallons/min	8 hr/yr (All Year)		
EQT271	377: Per/Tri Dowtherm Water Recovery Tank	6768 gallons		8760 hr/yr (All Year)		
EQT272	520A: No. 1 Per/Tri Reactor Coolant System			8760 hr/yr (All Year)		
EQT273	520B: No. 2 Per/Tri Reactor Coolant System			8760 hr/yr (All Year)		
EQT274	520C: No. 3 Per/Tri Reactor Coolant System			8760 hr/yr (All Year)		
EQT275	520D: No. 4 Per/Tri Reactor Coolant System			8760 hr/yr (All Year)		
EQT276	520E: No. 5 Per/Tri Reactor Coolant System			8760 hr/yr (All Year)		
EQT277	523A: East Per/Tri Catalyst Box Scrubber		112 ft ³ /min	20 hr/yr (All Year)		
EQT278	523B: West Per/Tri Catalyst Box Scrubber		112 ft ³ /min	20 hr/yr (All Year)		
EQT279	533F: Per/Tri Unit Cooling Tower		5000 gallons/min	8760 hr/yr (All Year)		
EQT280	63A-T-42: No. 1 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT281	63A-T-43: No. 2 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT282	63A-T-45: No. 3 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT283	63A-T-44: No. 4 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT284	63A-T-47: No. 5 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT285	63A-T-48: No. 6 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT286	63A-T-46: No. 7 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT287	63A-T-53: No. 8 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT288	63A-T-52: No. 9 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT289	63A-T-51: No. 10 ASLFT Tank	14800 gallons		8760 hr/yr (All Year)		
EQT290	63A-T-9: North SLEFT Tank	20300 gallons		8760 hr/yr (All Year)		
EQT291	63A-T-5: South SLEFT Tank	20300 gallons		8760 hr/yr (All Year)		
EQT292	63A-T-61: HSFT Tank	20300 gallons		8760 hr/yr (All Year)		
EQT293	63A-T-208: East BMS Tank	20300 gallons		8760 hr/yr (All Year)		
EQT294	63A-T-57: West BMS Tank	20300 gallons		8760 hr/yr (All Year)		
EQT295	63A-T-63: BLM Tank	6200 gallons		8760 hr/yr (All Year)		
EQT296	63A-T-64: NPL Tank	6200 gallons		8760 hr/yr (All Year)		
EQT297	63A-T-55: DG-1 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT298	63A-T-50: DG-2 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT299	63A-T-31: DG-3 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT300	63A-T-32: DG-4 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT301	63A-T-21: HP-1 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT302	63A-T-209: HP-2 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT303	63A-T-210: HP-3 Tank	14800 gallons		8760 hr/yr (All Year)		
EQT304	63A-T-128: PS-1 Tank	70500 gallons		8760 hr/yr (All Year)		
EQT305	63A-T-6282: PS-2 Tank	70500 gallons		8760 hr/yr (All Year)		

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
 Activity Number: PER19960009
 Permit Number: 2270-Y0
 Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT306	63A-T-130: 232-ST Tank	70500 gallons				8760 hr/yr (All Year)
EQT307	63A-T-131: TS-1 Tank	70500 gallons				8760 hr/yr (All Year)
EQT308	63A-T-134: TS-3 Tank	70500 gallons				8760 hr/yr (All Year)
EQT309	63A-T-56: 208-ST Tank	25400 gallons				8760 hr/yr (All Year)
EQT310	63A-T-54: 145-ST Tank	25400 gallons				8760 hr/yr (All Year)
EQT311	63A-T-37: 119-ST Tank	25400 gallons				8760 hr/yr (All Year)
EQT312	63A-T-13: NH3 Tank	15700 gallons				8760 hr/yr (All Year)
EQT313	63A-T-0: TCA Feed Tank	1761 gallons				8760 hr/yr (All Year)
EQT314	63A-T-16: Wafer Recovery Tank	1761 gallons				8760 hr/yr (All Year)
EQT315	63A-C-4: P/T Still System					8760 hr/yr (All Year)
EQT316	63A-C-3: Per CU Still System					8760 hr/yr (All Year)
EQT317	63A-C-106: Heavies Still System					8760 hr/yr (All Year)
EQT318	63A-C-2: Per Still System					8760 hr/yr (All Year)
EQT319	63A-C-105: Tri CU Still System					8760 hr/yr (All Year)
EQT320	63A-C-6: 208 Neutralizer System					8760 hr/yr (All Year)
EQT321	63A-C-8: 232 Neutralizer System					8760 hr/yr (All Year)
EQT322	63A-00010: No. 1 DH Still System					8760 hr/yr (All Year)
EQT323	63A-00104: No. 2 DH Still System					8760 hr/yr (All Year)
EQT324	63A-C-114: HCl Absorber/Sipper					8760 hr/yr (All Year)
EQT325	63A-R-4: No. 1 Reactor System					8760 hr/yr (All Year)
EQT326	63A-R-1: No. 2 Reactor System					8760 hr/yr (All Year)
EQT327	63A-R-3: No. 3 Reactor System					8760 hr/yr (All Year)
EQT328	63A-R-2: No. 4 Reactor System					8760 hr/yr (All Year)
EQT329	63A-R-5: No. 5 Reactor System					8760 hr/yr (All Year)
EQT330	63B-T-173: C4 Reactor System					8760 hr/yr (All Year)
EQT331	63A-T-488: P/T TCA Reactor System					8760 hr/yr (All Year)
FUG010	349C: Per/Tri Unit Fugitives					8760 hr/yr (All Year)
RLP020	339: Per/Tri Product Dryers Regeneration Vent		474 ft ³ /min			7200 hr/yr (All Year)
RLP021	524: Per/Tri Fluidization Vent Filter		1050 ft ³ /min			5000 hr/yr (All Year)
RLP022	524A: No. 1 Per/Tri Reactor Fluidization Vent		1050 ft ³ /min			5500 hr/yr (All Year)
RLP023	524B: No. 2 Per/Tri Reactor Fluidization Vent		1050 ft ³ /min			5500 hr/yr (All Year)
RLP024	524C: No. 3 Per/Tri Reactor Fluidization Vent		1050 ft ³ /min			5500 hr/yr (All Year)
RLP025	524D: No. 4 Per/Tri Reactor Fluidization Vent		1050 ft ³ /min			5500 hr/yr (All Year)
RLP026	524E: No. 5 Per/Tri Reactor Fluidization Vent		1050 ft ³ /min			5500 hr/yr (All Year)

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (From Above)
GRP074	PER/TRI Unit	EQT269 303: Per/Tri Reactor Area Scrubber
GRP074	PER/TRI Unit	EQT270 339: Per/Tri Still Line Scrubber
GRP074	PER/TRI Unit	EQT271 377: Per/Tri Dowtherm Water Recovery Tank
GRP074	PER/TRI Unit	EQT272 520A: No. 1 Per/Tri Reactor Coolant System
GRP074	PER/TRI Unit	EQT273 520B: No. 2 Per/Tri Reactor Coolant System
GRP074	PER/TRI Unit	EQT274 520C: No. 3 Per/Tri Reactor Coolant System
GRP074	PER/TRI Unit	EQT275 520D: No. 4 Per/Tri Reactor Coolant System
GRP074	PER/TRI Unit	EQT276 520E: No. 5 Per/Tri Reactor Coolant System
GRP074	PER/TRI Unit	EQT277 523A: East Per/Tri Catalyst Box Scrubber
GRP074	PER/TRI Unit	EQT278 523B: West Per/Tri Catalyst Box Scrubber
GRP074	PER/TRI Unit	EQT279 533F: Per/Tri Unit Cooling Tower
GRP074	PER/TRI Unit	EQT280 63A-T-42: No. 1 ASLFT Tank
GRP074	PER/TRI Unit	EQT281 63A-T-43: No. 2 ASLFT Tank
GRP074	PER/TRI Unit	EQT282 63A-T-45: No. 3 ASLFT Tank
GRP074	PER/TRI Unit	EQT283 63A-T-44: No. 4 ASLFT Tank
GRP074	PER/TRI Unit	EQT284 63A-T-47: No. 5 ASLFT Tank
GRP074	PER/TRI Unit	EQT285 63A-T-48: No. 6 ASLFT Tank
GRP074	PER/TRI Unit	EQT286 63A-T-46: No. 7 ASLFT Tank
GRP074	PER/TRI Unit	EQT287 63A-T-53: No. 8 ASLFT Tank
GRP074	PER/TRI Unit	EQT288 63A-T-52: No. 9 ASLFT Tank
GRP074	PER/TRI Unit	EQT289 63A-T-51: No. 10 ASLFT Tank
GRP074	PER/TRI Unit	EQT290 63A-T-9: North SLFT Tank
GRP074	PER/TRI Unit	EQT291 63A-T-5: South SLFT Tank
GRP074	PER/TRI Unit	EQT292 63A-T-61: HSFT Tank
GRP074	PER/TRI Unit	EQT293 63A-T-208: East Blms Tank
GRP074	PER/TRI Unit	EQT294 63A-T-57: West Blms Tank
GRP074	PER/TRI Unit	EQT295 63A-T-63: BLM Tank
GRP074	PER/TRI Unit	EQT296 63A-T-64: NPL Tank
GRP074	PER/TRI Unit	EQT297 63A-T-55: DG-1 Tank
GRP074	PER/TRI Unit	EQT298 63A-T-50: DG-2 Tank
GRP074	PER/TRI Unit	EQT299 63A-T-31: DG-3 Tank
GRP074	PER/TRI Unit	EQT300 63A-T-32: DG-4 Tank
GRP074	PER/TRI Unit	EQT301 63A-T-24: HP-1 Tank
GRP074	PER/TRI Unit	EQT302 63A-T-209: HP-2 Tank
GRP074	PER/TRI Unit	EQT303 63A-T-210: HP-3 Tank
GRP074	PER/TRI Unit	EQT304 63A-T-129: PS-1 Tank
GRP074	PER/TRI Unit	EQT305 63A-T-62822: PS-2 Tank

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP074	PER/Tri Unit	EQT306 63A-T-130; 232-ST Tank
GRP074	PER/Tri Unit	EQT307 63A-T-131; TS-1 Tank
GRP074	PER/Tri Unit	EQT308 63A-T-134; TS-3 Tank
GRP074	PER/Tri Unit	EQT309 63A-T-56; 208-ST Tank
GRP074	PER/Tri Unit	EQT310 63A-T-54; 145-ST Tank
GRP074	PER/Tri Unit	EQT311 63A-T-37; 119-ST Tank
GRP074	PER/Tri Unit	EQT312 63A-T-13; NH3 Tank
GRP074	PER/Tri Unit	EQT313 63A-T-0; TCA Feed Tank
GRP074	PER/Tri Unit	EQT314 63A-T-16; Water Recovery Tank
GRP074	PER/Tri Unit	EQT315 63A-C-4; P/T Still System
GRP074	PER/Tri Unit	EQT316 63A-C-3; Per CU Still System
GRP074	PER/Tri Unit	EQT317 63A-C-106; Heavies Still System
GRP074	PER/Tri Unit	EQT318 63A-C-2; Per Still System
GRP074	PER/Tri Unit	EQT319 63A-C-105; Tri CU Still System
GRP074	PER/Tri Unit	EQT320 63A-C-6; 208 Neutralizer System
GRP074	PER/Tri Unit	EQT321 63A-C-8; 232 Neutralizer System
GRP074	PER/Tri Unit	EQT322 63A-00010; No. 1 DH Still System
GRP074	PER/Tri Unit	EQT323 63A-00104; No. 2 DH Still System
GRP074	PER/Tri Unit	EQT324 63A-C-114; HCl Absorber/Stripper
GRP074	PER/Tri Unit	EQT325 63A-R-4; No. 1 Reactor System
GRP074	PER/Tri Unit	EQT326 63A-R-1; No. 2 Reactor System
GRP074	PER/Tri Unit	EQT327 63A-R-3; No. 3 Reactor System
GRP074	PER/Tri Unit	EQT328 63A-R-2; No. 4 Reactor System
GRP074	PER/Tri Unit	EQT329 63A-R-5; No. 5 Reactor System
GRP074	PER/Tri Unit	EQT330 63B-T-173; C4 Reactor System
GRP074	PER/Tri Unit	EQT331 63A-T-48B; P/T TCA Reactor System
GRP074	PER/Tri Unit	FUG10 349C; Per/Tri Unit Fugitives
GRP074	PER/Tri Unit	GRP75 524A-E; Per/Tri Reactor Fluidization Vents
GRP074	PER/Tri Unit	RLP20 359; Per/Tri Product Dryers Regeneration Vent
GRP074	PER/Tri Unit	RLP21 524; Per/Tri Fluidization Vent Filter
GRP074	PER/Tri Unit	RLP22 524A; No. 1 Per/Tri Reactor Fluidization Vent
GRP074	PER/Tri Unit	RLP23 524B; No. 2 Per/Tri Reactor Fluidization Vent
GRP074	PER/Tri Unit	RLP24 524C; No. 3 Per/Tri Reactor Fluidization Vent
GRP074	PER/Tri Unit	RLP25 524D; No. 4 Per/Tri Reactor Fluidization Vent
GRP074	PER/Tri Unit	RLP26 524E; No. 5 Per/Tri Reactor Fluidization Vent
GRP075	S24A-E; Per/Tri Reactor Fluidization Vents	RLP22 524A; No. 1 Per/Tri Reactor Fluidization Vent
GRP075	S24A-E; Per/Tri Reactor Fluidization Vents	RLP23 524B; No. 2 Per/Tri Reactor Fluidization Vent

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER1996009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP075	524A-E: Per/Tri Reactor Fluidization Vents	RLP24 524C: No. 3 Per/Tri Reactor Fluidization Vent
GRP075	524A-E: Per/Tri Reactor Fluidization Vents	RLP25 524D: No. 4 Per/Tri Reactor Fluidization Vent
GRP075	524A-E: Per/Tri Reactor Fluidization Vents	RLP26 524E: No. 5 Per/Tri Reactor Fluidization Vent

Relationships:

Subject Item	Relationship	Subject Item
EQT270 338: Per/Tri Still Line Scrubber	Controls emissions from	EQT313 63A-T-0: TCA Feed Tank
EQT314 63A-T-16: Water Recovery Tank	Vents to	EQT271 377: Per/Tri Downterm Water Recovery Tank

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT269	303: Per/Tri Reactor Area Scrubber	7.47	.792	1.5	.69	80
EQT270	339: Per/Tri Still Line Scrubber		.5	.2	17	80
EQT271	377: Per/Tri Downterm Water Recovery Tank		.5	.2	11	70
EQT272	520A: No. 1 Per/Tri Reactor Coolant System	1.89	2	.15	.02	62
EQT273	520B: No. 2 Per/Tri Reactor Coolant System	1.89	2	.15	.02	62
EQT274	520C: No. 3 Per/Tri Reactor Coolant System	1.89	2	.15	.02	62
EQT275	520D: No. 4 Per/Tri Reactor Coolant System	1.89	2	.15	.02	62
EQT276	520E: No. 5 Per/Tri Reactor Coolant System	1.89	2	.15	.02	62
EQT277	523A: East Per/Tri Catalyst Box Scrubber	2.38	112	1	.79	6
EQT278	523B: West Per/Tri Catalyst Box Scrubber	2.38	112	1	.79	6
EQT279	533F: Per/Tri Unit Cooling Tower	26.42	244000	14	153.94	19.42
RLP020	359: Per/Tri Product Dryers Regeneration Vent	348	.474	.17	0	180
RLP021	524: Per/Tri Fluidization Vent Filter	89	1050	.5	.2	33
RLP022	524A: No. 1 Per/Tri Reactor Fluidization Vent	89	1050	.5	.2	33
RLP023	524B: No. 2 Per/Tri Reactor Fluidization Vent	89	1050	.5	.2	33
RLP024	524C: No. 3 Per/Tri Reactor Fluidization Vent	89	1050	.5	.2	33
RLP025	524D: No. 4 Per/Tri Reactor Fluidization Vent	89	1050	.5	.2	33
RLP026	524E: No. 5 Per/Tri Reactor Fluidization Vent	89	1050	.5	.2	33

Fee Information:

Subject Item Id	Multiplier	Units Of Measure	Fee Desc
GRP074	319	MM Lb/Yr	0620 - Halogenated Hydrocarbons (Rated Capacity)

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

1,2-Epoxybutane		Ammonia		Biphenyl		Carbon tetrachloride		Chlorine	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 269									
303									
EQT 270									
339									
EQT 271									
377									
EQT 272									
520A									
EQT 273									
520B									
EQT 274									
520C									
EQT 275									
520D									
EQT 276									
520E									
EQT 277									
523A									
EQT 278									
523B									
FUG 010	0.009	0.07	< 0.0009						
34C									
GRP 075									
524A,E									
RLP 020	0.002								
359									
RLP 021									
524									
RLP 022									
524A									
RLP 023									
524B									
RLP 024									
524C									
RLP 025									
524D									

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Chloroethane			Chloroform			Copper (and compounds)			Ethylene			Hexachlorobutadiene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 269	1.10	1.33	0.02	8.87	10.64	0.16				0.05	0.06	< 0.01			
303															
EQT 270															
339															
EQT 271															
377															
EQT 272															
520A															
EQT 273															
520B															
EQT 274															
520C															
EQT 275															
520D															
EQT 276															
520E															
EQT 277															
523A															
EQT 278															
523B															
FUG 010	0.03		0.12	0.02		0.07							0.11		0.46
349C															
GRP 075															
524A-E															
RLP 020															
359															
RLP 021															
524															
RLP 022															
524A															
RLP 023															
524B															
RLP 024															
524C															
RLP 025															
524D															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	Hexachloroethane			Hydrochloric acid			Tetrachloroethylene			Trichloroethylene			Vinyl chloride		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 269 303				27.45	32.94		0.49	0.25	0.30	0.004	0.36	0.13	0.15	0.002	
EQT 270 339							0.07	0.08	< 0.001	0.01	0.01	< 0.001			
EQT 271 377															
EQT 272 520A															
EQT 273 520B															
EQT 274 520C															
EQT 275 520D															
EQT 276 520E															
EQT 277 523A	0.001	0.002	< 0.001				0.51	0.61	0.005	0.19	0.22	0.002			
EQT 278 523B	0.001	0.002	< 0.001				0.51	0.61	0.005	0.19	0.22	0.002			
FUG 010 349C	0.11	0.47	0.02				0.08	0.39	0.171	0.21	0.93	0.002	0.007		
GRP 075 524A-E															
RLP 020 359															
RLP 021 524															
RLP 022 524A															
RLP 023 524B															
RLP 024 524C															
RLP 025 524D															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

Vinylidene chloride			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
EQT 269 303	0.65	0.78	<0.001
EQT 270 339			
EQT 271 317			
EQT 272 520A			
EQT 273 520B			
EQT 274 520C			
EQT 275 520D			
EQT 276 520E			
EQT 277 523A	0.001	0.001	<0.001
EQT 278 523B	0.001	0.001	<0.001
FUG 010 349C	0.08	0.08	0.33
GRP 075 524A-E			
RLP 020 339			
RLP 021 524			
RLP 022 524A			
RLP 023 524B			
RLP 024 524C			
RLP 025 524D			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,2-Dichloroethane	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
RLP 026									
524E									

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

1,2-Epoxybutane				Ammonia				Biphenyl				Carbon tetrachloride				Chlorine			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year										
RLP 026																			
S24E																			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

Chloroethane		Chloroform		Copper (and compounds)		Ethylene		Hexachlorobutadiene	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
RLP 026						0.02			
52E									

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER1996009

Permit Number: 2270-Y0

Air - Title V Regular Permit Initial

All phases

Subject Item	Hexachloroethane			Hydrochloric acid			Tetrachloroethylene			Trichloroethylene			Vinyl chloride		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
RIP 026															
524E															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

Vinylidene chloride			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year
RLP 026			
52E			

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,1,1-Trichloroethane: 0.77 tons/yr
1,1,2,2-Tetrachloroethane: 1.16 tons/yr
1,1,2-Trichloroethane: 1.39 tons/yr
1,1-Dichloroethane: 1.32 tons/yr
1,2-Dichloroethane: 0.64 tons/yr
1,2-Epoxybutane: 0.01 tons/yr
Ammonia: 0.30 tons/yr
Biphenyl: 1.71 tons/yr
Carbon tetrachloride: 0.10 tons/yr
Chlorine: 0.07 tons/yr
Chloroethane: 0.14 tons/yr
Chloroform: 0.23 tons/yr
Copper (and compounds): 0.04 tons/yr
Ethylene: <0.01 tons/yr
Hexachlorobutadiene: 0.46 tons/yr
Hexachloroethane: 0.47 tons/yr
Hydrochloric acid: 0.57 tons/yr
Tetrachloroethylene: 5.16 tons/yr
Trichloroethylene: 1.80 tons/yr
Vinyl chloride: 0.01 tons/yr
Vinylidene chloride: 0.34 tons/yr

Emission Rates Notes:

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 269 303				137.22	164.99	2.47	123.55	148.26	2.15
EQT 270 339							0.01	0.01	0.01
EQT 271 377							0.03	0.03	0.11
EQT 272 520A							0.26	0.31	1.05
EQT 273 520B							0.26	0.31	1.05
EQT 274 520C							0.26	0.31	1.05
EQT 275 520D							0.26	0.31	1.05
EQT 276 520E							0.26	0.31	1.05
EQT 277 523A	0.01	< 0.01					0.25	0.31	0.01
EQT 278 523B	0.01	< 0.01					0.25	0.31	0.01
EQT 279 533F	0.01	0.01	0.03						
FUG 010 349C							1.85		8.10
GRP 075 524A-E	0.68		1.88						
RLP 020 339							0.15	0.37	0.63
RLP 021 524	0.01	0.02	0.03						
RLP 022 524A		0.82							
RLP 023 524B		0.82							
RLP 024 524C		0.82							

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-YO

Air - Title V Regular Permit Initial

All phases

Subject Item	PM ₁₀			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
RLP 025 5240		0.82							
RLP 026 524E		0.82							

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 1.94 tons/yr
CO: 2.47 tons/yr
VOC: 16.24 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

All phases

1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,2-Dichloroethane	
Subject Item	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
EQT 269 303	42.50	51.00	0.10	0.12	0.002	12.52	15.02	0.23	67.91
EQT 270 339									
EQT 271 377									
EQT 272 520A									
EQT 273 520B									
EQT 274 520C									
EQT 275 520D									
EQT 276 520E									
EQT 277 523A			< 0.001	< 0.001	0.001	0.001	< 0.001		
EQT 278 523B			< 0.001	< 0.001	0.001	0.001	< 0.001		
FUG 010 349C					0.26	1.16	0.26	0.16	0.10
GRP 075 524A,E									
RLP 020 359									
RLP 021 524									
RLP 022 524A									
RLP 023 524B									
RLP 024 524C									
RLP 025 524D									

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT269 303: Per/Tri Reactor Area Scrubber

- 1 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 2 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 3 Flow rate \geq 40 gallons/min. [LAC 33:III.501.C.6]
- 4 Which Months: All Year Statistical Basis: None specified
- 5 Emissions are controlled by scrubber - Determined as MACT. [LAC 33:III.5109.A]

EQT270 339: Per/Tri Still Line Scrubber

- 5 Flow rate recordkeeping by electronic or hard copy once every four hours. [LAC 33:III.501.C.6]
- 6 Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]
- 7 Flow rate \geq 5 Gallons/min. [LAC 33:III.501.C.6]
- 8 Which Months: All Year Statistical Basis: None specified
- 9 Emissions are controlled by scrubber - Determined as MACT. [LAC 33:III.5109.A]

EQT271 377: Per/Tri Dowtherm Water Recovery Tank

- 9 The tank emits very low amount of TAPs. Control is not cost effective. It is determined that no control is MACT. [LAC 33:III.5109.A]

EQT272 520A: No. 1 Per/Tri Reactor Coolant System

- 10 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 11 Non direct contact coolant system. No control is required - determined as MACT. [LAC 33:III.5109.A]

EQT273 520B: No. 2 Per/Tri Reactor Coolant System

- 12 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 13 Non direct contact coolant system. No control is required - determined as MACT. [LAC 33:III.5109.A]

EQT274 520C: No. 3 Per/Tri Reactor Coolant System

- 14 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 15 Non direct contact coolant system. No control is required - determined as MACT. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
Activity Number: PER19960009
Permit Number: 2270-Y0
Air - Title V Regular Permit Initial

EQT275 520D: No. 4 Per/Tri Reactor Coolant System

- 16 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed.
Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
17 Non direct contact coolant system. No control is required - determined as MACT. [LAC 33:III.5109.A]

EQT276 520E: No. 5 Per/Tri Reactor Coolant System

- 18 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed.
Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
19 Non direct contact coolant system. No control is required - determined as MACT. [LAC 33:III.5109.A]

EQT277 523A: East Per/Tri Catalyst Box Scrubber

- 20 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
21 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed.
Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
22 No further control is required - determined as MACT. [LAC 33:III.5109.A]

EQT278 523E: West Per/Tri Catalyst Box Scrubber

- 23 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
24 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed.
Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
25 No further control is required - determined as MACT. [LAC 33:III.5109.A]

EQT279 533F: Per/Tri Unit Cooling Tower

- 26 Comply with HON Subpart F - Determined as MACT. [LAC 33:III.5109.A]
27 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
28 Heat exchange systems (cooling water): HAP monitored by the regulation's specified method(s) monthly for the first 6 months and quarterly thereafter to detect leaks. Monitor for total hazardous air pollutants, total volatile organic compounds, total organic carbon, one or more specified HAP compounds, or other representative substances that would indicate the presence of a leak in the heat exchange system. Subpart F. [40 CFR 63.104(b)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT279 533F: Per/Tri Unit Cooling Tower

29 Heat exchange systems: Maintain, at all times, the monitoring plan currently in use. Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]

30 Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]

31 Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

32 Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy continuously. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

EQT280 63A-T-42: No. 1 ASLFT Tank

33 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A.]

34 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

35 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.1172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT281 63A-T-43: No. 2 ASLFT Tank

36 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A.]

37 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

38 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.1172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT282 63A-T-45: No. 3 ASLFT Tank

39 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A.]

40 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT282 63A-T-45: No. 3 ASLFT Tank

- 41 Comply with HON Subpart H per 40 CFR 63.160(b)(1). NSPS Subpart Kb. [40 CFR 60.110b]
- 42 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT283 63A-T-44: No. 4 ASLFT Tank

- 43 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 44 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 45 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT284 63A-T-47: No. 5 ASLFT Tank

- 46 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 47 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 48 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT285 63A-T-48: No. 6 ASLFT Tank

- 49 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 50 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 51 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT286 63A-T-46: No. 7 ASLFT Tank

- 52 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 53 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT286 63A-T-46: No. 7 ASLFT Tank

- 54 Comply with HON Subpart H per 40 CFR 63.160(b)(1). NSPS Subpart Kb. [40 CFR 60.110b]
55 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.1172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT287 63A-T-53; No. 8 ASLFT Tank

- 56 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
57 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
58 Comply with HON Subpart H per 40 CFR 63.160(b)(1). NSPS Subpart Kb. [40 CFR 60.110b]
59 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT288 63A-T-52; No. 9 ASLFT Tank

- 60 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
61 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
62 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT289 63A-T-51; No. 10 ASLFT Tank

- 63 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
64 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
65 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT290 63A-T-9: North SLFT Tank

- 66 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]

SPECIFIC REQUIREMENTS

AJ ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT290 63A-T-9: North SLFT Tank

- 67 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 68 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT291 63A-T-5: South SLFT Tank

- 69 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 70 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 71 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT292 63A-T-61: HSFT Tank

- 72 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 73 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 74 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT293 63A-T-208: East Btms Tank

- 75 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 76 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 77 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT294 63A-T-57: West Btms Tank

- 78 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 79 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT294 63A-T-57: West Btms Tank

- 80 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT295 63A-T-63: BLM Tank

- 81 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
82 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
83 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT296 63A-T-64: NPL Tank

- 84 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
85 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
86 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT297 63A-T-55: DG-1 Tank

- 87 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
88 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
89 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT298 63A-T-50: DG-2 Tank

- 90 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
91 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT298 63A-T-50: DG-2 Tank

- 92 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT299 63A-T-31: DG-3 Tank

- 93 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
94 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
95 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT300 63A-T-32: DG-4 Tank

- 96 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
97 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
98 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT301 63A-T-214: HP-1 Tank

- 99 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
100 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
101 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT302 63A-T-209: HP-2 Tank

- 102 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
103 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
Activity Number: PER19960009
Permit Number: 2270-V0
Air - Title V Regular Permit Initial

EQT302 63A-T-209: HP-2 Tank

- 104 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H. [40 CFR 63.170]

EQT303 63A-T-210: HP-3 Tank

- 105 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
106 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
107 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT304 63A-T-129: PS-1 Tank

- 108 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
109 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
110 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT305 63A-T-62822: PS-2 Tank

- 111 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
112 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
113 Comply with HON Subpart H per 40 CFR 63.160(b)(1). NSPS Subpart Kb. [40 CFR 60.110b]
114 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT306 63A-T-130: 232-ST Tank

- 115 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
116 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT306 63A-T-130: 232-ST Tank

117 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT307 63A-T-131: TS-1 Tank

118 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
119 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
120 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT308 63A-T-134: TS-3 Tank

121 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
122 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
123 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT309 63A-T-56: 208-ST Tank

124 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
125 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
126 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

EQT310 63A-T-54: 145-ST Tank

127 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
128 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

SPECIFIC REQUIREMENTS

AI ID: 1235 - PPG Industries Inc - Lake Charles Complex
Activity Number: PER19960009
Permit Number: 2270-V0
Air - Title V Regular Permit Initial

EQT310 63A-T-54: 145-ST Tank

129 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3.

EQT311 63A-T-37: 119-ST Tank

130 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]

131 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:II.501]

132 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3.

EQT312 63A-T-13: NH3 Tank

133 Class III TAP - MACT is not required. [LAC 33:III.5109.A]

EQT313 63A-T-0: TCA Feed Tank

134 Emissions are controlled by a scrubber (EQT270) - determined as MACT. [LAC 33:III.5109.A]

EQT314 63A-T-16: Water Recovery Tank

135 Wastewater and missions are vented to EQT271. It is determined that no control is MACT for EQT271. [LAC 33:III.5109.A]

EQT315 63A-C-4: P/T Still System

136 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]

137 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]

138 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified
139 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using alhalogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]

Which Months: All Year Statistical Basis: None specified
140 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]

141 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT316 63A-C-3: Per CU Still System

- 142 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 143 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 144 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 145 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 146 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
- 147 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT317 63A-C-106: Heavies Still System

- 148 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 149 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 150 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 151 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 152 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
- 153 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT318 63A-C-2: Per Still System

- 154 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 155 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 156 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 157 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT318 63A-C-2: Per Still System

- 158 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
Subpart G. [40 CFR 63.113(c)(1)]
- 159 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT319 63A-C-105: Tri CU Still System

- 160 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 161 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 162 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 163 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 164 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
Subpart G. [40 CFR 63.113(c)(1)]
- 165 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT322 63A-00010: No. 1 DH Still System

- 166 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 167 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 168 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 169 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 170 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
Subpart G. [40 CFR 63.113(c)(1)]
- 171 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT323 63A-00104: No. 2 DH Still System

- 172 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 173 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AJ ID: 1255 - PPG Industries Inc - Lake Charles Complex
Activity Number: PER19960009
Permit Number: 2270-V0
Air - Title V Regular Permit Initial

EQT323 63A-00104: No. 2 DH Still System

- 174 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 175 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 176 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
- Subpart G. [40 CFR 63.113(c)(1)]
- 177 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT324 63A-C-114: HCl Absorber/Stripper

- 178 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 179 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 180 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 181 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 182 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
- Subpart G. [40 CFR 63.113(c)(1)]
- 183 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT325 63A-R-4: No. 1 Reactor System

- 184 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 185 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 186 Organic HAP $\geq 98\%$ reduction by weight, or ≤ 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 187 Halogenated vent streams: Hydrogen halides and halogens $\geq 95\%$ reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 188 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
- Subpart G. [40 CFR 63.113(c)(1)]
- 189 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

SPECIFIC REQUIREMENTS

Af ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT326 63A-R-1: No. 2 Reactor System

- 190 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 191 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 192 Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 193 Halogenated vent streams: Hydrogen halides and halogens >= 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 194 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
- 195 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT327 63A-R-3: No. 3 Reactor System

- 196 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 197 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 198 Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 199 Halogenated vent streams: Hydrogen halides and halogens >= 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified
- 200 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere. Subpart G. [40 CFR 63.113(c)(1)]
- 201 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT328 63A-R-2: No. 4 Reactor System

- 202 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33:III.501]
- 203 Comply with HON Subpart G as MACT. [LAC 33:III.5109.A]
- 204 Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 205 Halogenated vent streams: Hydrogen halides and halogens >= 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(iii)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

EQT328 63A-R-2: No. 4 Reactor System

- 206 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
Subpart G. [40 CFR 63.113(c)(1)]
- 207 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

EQT329 63A-R-5: No. 5 Reactor System

- 208 Emissions from this tank are routed to a combustion device currently covered in Permit 2040-V0, issued February 21, 2005. [LAC 33.III.501]
- 209 Comply with HON Subpart G as MACT. [LAC 33.III.5109.A]
- 210 Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 211 Halogenated vent streams: Hydrogen halides and halogens >= 95 % reduction, or reduce the outlet mass of total hydrogen halides and halogens < 0.45 kg/hr, whichever is less stringent, using a halogen reduction device. Subpart G. [40 CFR 63.113(c)(1)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 212 Halogenated vent streams: Convey vent stream exiting a combustion device to a halogen reduction device, such as a scrubber, before being discharged to the atmosphere.
Subpart G. [40 CFR 63.113(c)(1)]
- 213 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

FUG010 349C: Per/Tri Unit Fugitives

- 214 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33.III.2111]
- 215 Comply with LAC 33.III.2122 by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart H. [LAC 33.III.2122]
- 216 Comply with LAC 33.III.5109.A by implementing the Louisiana Consolidated Fugitive Emissions Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart H. [LAC 33.III.5109]
- 217 40 CFR 60 Subpart VV is superseded by HON Subpart H. [40 CFR 60.480]
- 218 40 CFR 61 Subpart V is superseded by HON Subpart H. [40 CFR 61.240]
- 219 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 220 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

FUG010 349C: Per/TRI Unit Fugitives

- 221 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- Which Month: All Year Statistical Basis: None specified
- 222 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- Which Month: All Year Statistical Basis: None specified
- 223 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 224 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 225 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 226 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.163(e)(1)]
- 227 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.163(e)(2)]
- 228 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(3)]
- 229 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)(4)]
- Which Month: All Year Statistical Basis: None specified
- 230 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(6)(i)]
- 231 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.163(e)(6)]
- 232 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)]
- Which Month: All Year Statistical Basis: None specified
- 233 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Subpart H. [40 CFR 63.163(j)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
Activity Number: PER19960009
Permit Number: 2270-V0
Air - Title V Regular Permit Initial

FUG010 349C: Per/TRI Unit Fugitives

- 234 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 235 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 236 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 237 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 238 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 239 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 240 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 241 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart H. [40 CFR 63.164(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- 242 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- Which Months: All Year Statistical Basis: None specified
- 243 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- 244 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 245 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 246 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(d)(2)]
- 247 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

FUG010 349C: Per/TRI Unit Fugitives

- 248 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 249 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 250 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- Which Months: All Year Statistical Basis: None specified
- 251 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
- Which Months: All Year Statistical Basis: None specified
- 252 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(e)(1).
- Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
- Which Months: All Year Statistical Basis: None specified
- 253 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1).
- 254 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- 255 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 256 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(h)(1)]
- 257 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.168(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- 258 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.168(i)(1)]
- 259 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Subpart H. [40 CFR 63.168(i)(3)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

FUG010 349C: Per/TRI Unit Fugitives

260 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]

Which Months: All Year Statistical Basis: None specified

261 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]

262 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]

263 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]

Which Months: All Year Statistical Basis: None specified

264 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]

Which Months: All Year Statistical Basis: None specified

265 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]

266 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Subpart H. [40 CFR 63.173(d)]

Which Months: All Year Statistical Basis: None specified

267 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Subpart H. [40 CFR 63.173(h)(3)]

Which Months: All Year Statistical Basis: None specified

268 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.173(j)(2)]

Which Months: All Year Statistical Basis: None specified

269 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex
Activity Number: PERI9960009
Permit Number: 2270-V0
Air - Title V Regular Permit Initial

FUG010 349C: Per/TRI Unit Fugitives

- 270 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 271 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 272 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
- Which Months: All Year Statistical Basis: None specified
- 273 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 274 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 275 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 276 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Subpart H. [40 CFR 63.174(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- 277 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]
- 278 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k).
- Subpart H. [40 CFR 63.181]
- 279 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 280 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 281 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- GRP074 PER/TRI Unit**
- 282 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33.III.1303.B]
- 283 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33.III.2113.A.1-5. [LAC 33.III.2113.A]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

GRP074 PER/TRI Unit

- 284 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 285 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 286 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 287 Particulate matter (10 microns or less) <= 1.94 tons/yr. [LAC 33:III.501.C.6]
- 288 VOC, Total <= 16.24 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 289 1,1,1-Trichloroethane <= 0.77 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 290 1,1,2,2-Tetrachloroethane <= 1.16 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 291 1,1,2-Trichloroethane <= 1.39 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 292 1,1-Dichloroethane <= 1.32 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 293 1,2-Dichloroethane <= 0.64 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 294 1,2-Epoxybutane <= 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 295 Ammonia <= 0.30 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 296 Biphenyl <= 1.71 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 297 Carbon tetrachloride <= 0.10 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 298 Chlorine <= 0.07 tons/yr. [LAC 33:III.501.C.6]
- Which Months: Phases: Statistical Basis: Annual maximum
- 299 Chloroethane <= 0.14 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 300 Chloroform <= 0.23 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 301 Copper (and compounds) <= 0.04 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 302 Ethylene < 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

GRP074 PER/TRI Unit

- 303 Hexachlorobutadiene <= 0.46 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 304 Hexachloroethane <= 0.47 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 305 Hydrochloric acid <= 0.57 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 306 Tetrachloroethylene <= 5.16 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 307 Trichloroethylene <= 1.80 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 308 Vinyl chloride <= 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 309 Vinylidene chloride <= 0.34 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 310 Carbon monoxide <= 2.47 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 311 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III. Chapter 51. Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III. Chapter 51. Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 312 Do not cause a violation of any ambient air standard listed in LAC 33:III. Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 313 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 314 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III. Chapter 51. Subchapter A. [LAC 33:III.5105.A.4]
- 315 Submit initial annual emissions report (TEDI) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991. [LAC 33:III.5107.A.1]
- 316 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Environmental Evaluation Division in a form specified by the department. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 317 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 318 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-Y0

Air - Title V Regular Permit Initial

GRP074 PER/TRI Unit

- 319 Submit notification: Due to the Office of Environmental Compliance, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.Chapter 51.1 or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]
- 320 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 321 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 322 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 323 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 324 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 325 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 326 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 327 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 328 Submit notification in writing: Due to the Office of Environmental Compliance, Surveillance Division not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 329 Submit notification in writing: Due to the Office of Environmental Compliance, Surveillance Division within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]
- 330 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 331 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 332 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 333 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 334 Submit certified letter: Due to the Office of Environmental Assessment, Environmental Technology Division before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

GRP074 PER/TRI Unit

- 335 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 336 Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 337 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 338 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 339 Submit performance evaluation report: Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 340 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 341 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 342 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.C.5.a]
- 343 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 344 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 345 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 346 Submit plan: Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 347 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 348 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 349 Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 350 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 351 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A.]
- 352 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A.]
- 353 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER19960009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

GRP074 PER/Tri Unit

- 354 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 355 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 356 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 357 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 358 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 359 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

RLP020 Per/Tri Product Dryers Regeneration Vent

- 360 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K.]
- 361 No control required. [LAC 33:III.5109.A]

RLP021 524: Per/Tri Fluidization Vent Filter

- 362 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 363 Copper emissions are controlled with a filter - determined as MACT. [LAC 33:III.5109.A]

RLP022 524A: No. 1 Per/Tri Reactor Fluidization Vent

- 364 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 365 Emissions are normally controlled by the vent filter (RLP021). Emissions during nitrogen exhausting are not controlled. [LAC 33:III.5109.A]

RLP023 524B: No. 2 Per/Tri Reactor Fluidization Vent

- 366 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 367 Emissions are normally controlled by the vent filter (RLP021). Emissions during nitrogen exhausting are not controlled. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER1996009

Permit Number: 2270-V0

Air - Title V Regular Permit Initial

RLP024 524C: No. 3 Per/Tri Reactor Fluidization Vent

368 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

369 Emissions are normally controlled by the vent filter (RLP021). Emissions during nitrogen exhausting are not controlled. [LAC 33:III.S109.A]

RLP025 524D: No. 4 Per/Tri Reactor Fluidization Vent

370 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

371 Emissions are normally controlled by the vent filter (RLP021). Emissions during nitrogen exhausting are not controlled. [LAC 33:III.S109.A]

RLP026 524E: No. 5 Per/Tri Reactor Fluidization Vent

372 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

373 Emissions are normally controlled by the vent filter (RLP021). Emissions during nitrogen exhausting are not controlled. [LAC 33:III.S109.A]